

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 through 8. (Canceled)

9. (Currently Amended) A calibration module for connection between a device under test and a network analyzer comprising:

a controller;

a memory that stores calibration parameters for the calibration module; and,

a multi-state circuit, including:

a first port for connection to the device under test,

a second port for connection to the network analyzer,

a third port,

a first switch connected to the first port,

a second switch connected to the second port, and

a third switch connected to the third port;

wherein a first pole of the first switch, a first pole of the second switch, and a first pole of the third switch are all connected together through transmission lines.

10. (Currently Amended) A calibration module ~~as in claim 9~~
additionally comprising:

 a controller;

 a memory that stores calibration parameters for the calibration
module;

 a multi-state circuit, including:

 a first port,

 a second port,

 a third port,

 a first switch connected to the first port,

 a second switch connected to the second port, and

 a third switch connected to the third port, wherein a first pole of
the first switch, a first pole of the second switch, and a first pole of the third
switch are all connected together through transmission lines;

 a fourth switch connected to a second pole of the first switch, a first
pole of the fourth switch being connected to a first load; and,

 a fifth switch connected to a second pole of the second switch, a first
pole of the fifth switch being connected to a second load.

11. (Currently Amended) A calibration module as in claim 9-10
additionally comprising:

~~a fourth switch connected to a second pole of the first switch, a first
pole of the fourth switch being connected to a first load;~~

~~— a fifth switch connected to a second pole of the second switch, a first pole of the fifth switch being connected to a second load;~~

a first power sensor being connected to a second pole of the fourth switch; and,

a second power sensor being connected to a second pole of the fifth switch.

12. (Currently Amended) A calibration module as in claim 9-10 additionally comprising:

~~— a fourth switch connected to a second pole of the first switch, a first pole of the fourth switch being connected to a first load;~~

~~— a fifth switch connected to a second pole of the second switch, a first pole of the fifth switch being connected to a second load;~~

a first noise source being connected to a second pole of the fourth switch; and,

a second noise source being connected to a second pole of the fifth switch.

13. (Original) A calibration module as in claim 9 wherein:

the first switch includes field effect transistors arranged so that the first switch can provide an open to the first port and can provide a short to the first port; and,

the second switch includes field effect transistors arranged so that the second switch can provide an open to the second port and can provide a short to the second port.

14. (Original) A calibration module as in claim 9 wherein:
the first switch is connected to the first port through a transmission line;
the second switch is connected to the second port through a transmission line; and,
the third switch is connected to the third port through a transmission line.

15. (Original) A calibration module as in claim 9 additionally comprising:
a data port operable to communicate with test equipment.

16. (Currently Amended) A multi-state circuit for use within a calibration module, the calibration module being for connection between a device under test and a network analyzer, the multi-state circuit comprising:
a first port for connection to the device under test;
a second port for connection to the network analyzer;
a third port;
a first switch connected to the first port;

a second switch connected to the second port; and,
a third switch connected to the third port;
wherein a first pole of the first switch, a first pole of the second switch,
and a first pole of the third switch are all connected together through
transmission lines.

17. (Currently Amended) A multi-state circuit as in claim ~~16~~20
additionally comprising:

~~——a fourth switch connected to a second pole of the first switch, a first
pole of the fourth switch being connected to a first load;~~

~~——a fifth switch connected to a second pole of the second switch, a first
pole of the fifth switch being connected to a second load;~~

a first power sensor being connected to a second pole of the fourth
switch; and,

a second power sensor being connected to a second pole of the fifth
switch.

18. (Currently Amended) A multi-state circuit as in claim ~~16~~20
additionally comprising:

~~——a fourth switch connected to a second pole of the first switch, a first
pole of the fourth switch being connected to a first load;~~

~~——a fifth switch connected to a second pole of the second switch, a first
pole of the fifth switch being connected to a second load;~~

a first noise source being connected to a second pole of the fourth switch; and,

a second noise source being connected to a second pole of the fifth switch.

19. (Original) A multi-state circuit as in claim 16 wherein:

the first switch includes field effect transistors arranged so that the first switch can provide an open to the first port and can provide a short to the first port; and,

the second switch includes field effect transistors arranged so that the second switch can provide an open to the second port and can provide a short to the second port.

20. (Currently Amended) A multi-state circuit for use within a calibration module, ~~as in claim 16 additionally~~ comprising:

a first port for connection to the device under test;

a second port for connection to the network analyzer;

a third port;

a first switch connected to the first port;

a second switch connected to the second port;

a third switch connected to the third port, wherein a first pole of the first switch, a first pole of the second switch, and a first pole of the third switch are all connected together through transmission lines;

a fourth switch connected to a second pole of the first switch, a first pole of the fourth switch being connected to a first load; and,

a fifth switch connected to a second pole of the second switch, a first pole of the fifth switch being connected to a second load.